Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A system for detecting and transferring data pertaining to an unknown analyte, the system comprising:

a device manager;

a data capture module coupled to the device manager for capturing data pertaining to the unknown analyte at a first geographic location;

a first data formatting module coupled to the device manager for formatting data captured by the data capture module into a transmissible format;

a first input/output (I/O) module coupled to the device manager for transmitting data formatted by the first data formatting module to a processor at a second geographic location via a computer network;

a processor manager;

a data acquisition module coupled to the processor manager for receiving formatted data from the device manager;

a second data formatting module coupled to the processor manager for decoding data received by the data acquisition module;

a database interface module coupled to the processor manager for retrieving data of known analytes from an electronic library;

an analysis module coupled to the processor manager for performing analysis on data decoded by the second data formatting module and generating an analysis result; and

a second I/O module coupled to the processor manager for managing communications between the processor manager and other entities,

wherein said device manager resides in a first device; and

wherein said processor manager and said electronic library reside in a second device, and

wherein said second device corresponds to a server connectable to said first device via the computer network.

2. (Canceled)

3. (Canceled).

4. (Previously Presented) A system according to claim 1, wherein the database interface module can also update the electronic library with data received by the data acquisition module.

5. (Previously Presented) A system according to claim 1, wherein the first I/O module is coupled to the computer network.

6. (Original) A system according to claim 1, wherein the computer network is selected from a member from a group consisting of a worldwide computer network, an internet, the Internet, a wide area network, a local area network, and an intranet.

7. (Original) A system according to claim 1, wherein the data capture module performs a step including:

capturing the data pertaining to the unknown analyte in an analog format.

8. (Original) A system according to claim 7, wherein the first data formatting module performs steps including:

converting data captured by the data capture module into a digital format;

encoding the captured data in digital format into an analysis format;

encoding the captured data in analysis format into TCP/IP format; and

encoding the captured data in TCP/IP format into a network-specific data format.

9. (Previously Presented) A system according to claim 1, wherein the second I/O module performs a step including:

displaying the analysis result on a web page.

10. (Original) A system according to claim 1, wherein the transmission of the data formatted by the first data formatting module is conducted via wireless communications.

11. (Original) A system according to claim 10, wherein said wireless communications are implemented using communications technologies selected from a member of a group consisting of infrared technology, satellite technology, microwave technology and radio wave technology.

12. (Original) A system according to claim 1, wherein the transmission of the data formatted by the first data formatting module is conducted via wired communications.

13. (Original) A system according to claim 1, wherein the data captured by the data capture module is olfaction data.

14. (Original) A system according to claim 1, wherein the system is used in an application selected from a group consisting of hospital/medical applications, fire safety monitoring, environmental toxicology, remediation, biomedicine, material quality control, food monitoring, agricultural monitoring, heavy industrial manufacturing, ambient air monitoring, worker protection, emissions control, product quality testing, oil/gas petrochemical applications, combustible gas detection, H_2S monitoring, hazardous leak detection, emergency response and law enforcement applications, explosives detection, utility and power applications, food/beverage/agriculture applications, freshness detection, fruit ripening control, fermentation process monitoring and control, flavor composition and identification, product quality and identification, refrigerant and fumigant detection, cosmetic/perfume applications, fragrance formulation, chemical/plastics/pharmaceuticals applications, fugitive emission identification, solvent recovery effectiveness, anesthesia and sterilization gas detection, infectious disease detection, breath analysis and body fluids analysis.

15. – 22. (Canceled).